

03560.002834.



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
Yuko YAKUSHIGAWA, et al. ) : Examiner: Unassigned  
Application No.: 10/682,521 ) : Group Art Unit: Unassigned  
Filed: October 10, 2003 ) :  
For: INK SET, INK JET RECORDING ) :  
METHOD, RECORDING UNIT, INK ) : November 17, 2003  
CARTRIDGE, AND INK JET ) :  
RECORDING APPARATUS :  
:

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Each of the documents was cited in Application No. 09/884,096 (the “096 Application”), the parent application of this divisional application.

The concise explanation of relevance for some of the non-English documents may be found in the specification at pages 3, 14, 15, 24, 37, 58, 59, 60 and 62. Also, Applicants

obtained English language computer database abstracts, where readily available, for the non-English documents and attached them to the copies submitted in the '096 Application. English language counterparts, where readily available, were also submitted in the '096 Application and are listed on the Form PTO-1449.

Copies of the listed documents were previously submitted, or cited by the Examiner, in the parent application. Therefore, copies are not being provided, in accordance with 37 C.F.R. § 1.98(d). However, if copies are not available to the Examiner, the Examiner is invited to telephone Applicants' undersigned representative to request them. Nevertheless, U.S. Patent Nos. 6,474,804, 6,281,917 and 2002/0011178 A1 are enclosed because they were previously submitted as Application Nos. 09/887,259, 09/049,921 and 09/871,628, respectively. (Application No. 09/871,627 also was cited in the '096 Application, and was later published as 2002/0050225 A1. This patent publication was then cited in the PTO-892 dated January 24, 2003 by the Examiner, and it is cited in that form on the attached PTO-1449.)

European Search Reports (dated September 20, 2001 and June 17, 2003) from a counterpart patent application, and citing some of the documents, are also enclosed for the Examiner's convenient reference.

No fee or certification is required in connection with this Information Disclosure Statement, since it is being submitted within three months of the filing date of this application.

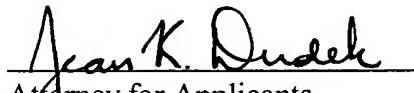


CONCLUSION

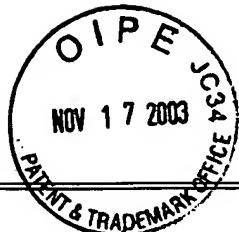
It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,

  
\_\_\_\_\_  
Attorney for Applicants  
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146830 v 1



FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)  
(November 17, 2003)ATTY DOCKET NO.  
03560.002834.1APPLICATION NO.  
10/682,521APPLICANT  
Yuko YAKUSHIGAWA, et al.FILING DATE  
October 10, 2003GROUP  
Unassigned

## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE       | NAME               | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|-----------------|------------|--------------------|-------|----------|----------------------------|
|                  | 4,202,870       | 05/13/1980 | Weber et al.       | 423   | 630      |                            |
|                  | 4,242,271       | 12/30/1980 | Weber et al.       | 260   | 448 AD   |                            |
|                  | 4,248,852       | 02/03/1981 | Wakabayashi et al. | 423   | 626      |                            |
|                  | 4,313,124       | 01/26/1982 | Hara               | 346   | 140 R    |                            |
|                  | 4,345,262       | 08/17/1982 | Shirato et al.     | 346   | 140 R    |                            |
|                  | 4,391,960       | 07/05/1983 | Kleine et al.      | 526   | 74       |                            |
|                  | 2002/0050225 A1 | 05/2002    | Mafune et al.      | 106   | 31.27    |                            |
|                  | 2002/0093557    | 07/2002    | Takuhara et al.    | 347   | 100      |                            |

## FOREIGN PATENT DOCUMENTS

|  | DOCUMENT NUMBER | DATE       | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES/NO/ OR ABSTRACT                    |
|--|-----------------|------------|---------|-------|----------|--|
|  | JP 54-56847 A   | 05/08/1979 | Japan   |       |          | Abstract Previously Submitted                      |
|  | JP 55-27830 A   | 02/28/1980 | Japan   |       |          | Abstract and u.s. Counterpart Previously Submitted |
|  | JP 57-44605 A   | 03/13/1982 | Japan   |       |          | Abstract and u.s. Counterpart Previously Submitted |
|  | JP 59-123670 A  | 07/17/1984 | Japan   |       |          | Abstract Previously Submitted                      |
|  | JP 59-138461 A  | 08/08/1984 | Japan   |       |          | Abstract Previously Submitted                      |
|  | JP 60-71260 A   | 04/23/1985 | Japan   |       |          | Abstract and u.s. Counterpart Previously Submitted |

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

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| FORM PTO 1449 (modified)<br>U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE               |                 |            | ATTY DOCKET NO.<br>03560.002834.1     | APPLICATION NO.<br>10/682,521 |          |  |
|--|-----------------|------------|---------------------------------------|-------------------------------|----------|--|
| LIST OF REFERENCES CITED BY APPLICANT(S)<br>(Use several sheets if necessary)<br>(November 17, 2003) |                 |            | APPLICANT<br>Yuko YAKUSHIGAWA, et al. |                               |          |  |
|  |                 |            | FILING DATE<br>October 10, 2003       | GROUP<br>Unassigned           |          |  |
| U.S. PATENT DOCUMENTS  |                 |            |                                       |                               |          |  |
| *EXAMINER INITIAL  | DOCUMENT NUMBER | DATE       | NAME                                  | CLASS                         | SUBCLASS | FILING DATE IF APPROPRIATE                         |
|  | 4,459,600       | 07/10/1984 | Sato et al.                           | 346                           | 140 R    |  |
|  | 4,463,359       | 07/31/1984 | Ayata et al.                          | 346                           | 1.1      |  |
|  | 4,533,920       | 08/06/1985 | Suzuki                                | 346                           | 1.1      |  |
|  | 4,558,333       | 12/10/1985 | Sugitani et al.                       | 346                           | 140 R    |  |
|  | 4,608,577       | 08/26/1986 | Hori                                  | 346                           | 140 R    |  |
|  | 4,723,129       | 02/02/1988 | Endo et al.                           | 346                           | 1.1      |  |
|  | 4,740,796       | 04/26/1988 | Endo et al.                           | 346                           | 1.1      |  |
|  | 2002/0038613    | 04/2002    | Yatake, Masahiro                      | 106                           | 31.6     |  |
|  | 6,460,988       | 10/2002    | Mafune et al.                         | 347                           | 100      |  |
|  | 6,454,844       | 09/2002    | Kanaya, Miharu                        | 106                           | 31.48    |  |
| FOREIGN PATENT DOCUMENTS   |                 |            |                                       |                               |          |  |
|  | DOCUMENT NUMBER | DATE       | COUNTRY                               | CLASS                         | SUBCLASS | TRANSLATION YES/NO/ OR ABSTRACT                    |
|  | JP 2803134 B2   | 12/21/1989 | Japan                                 |                               |          | Abstract and U.S. Counterpart Previously Submitted |
|  | JP 2881847 B2   | 10/191990  | Japan                                 |                               |          | Abstract and U.S. Counterpart Previously Submitted |
|  | JP 2783647 B2   | 01/16/1992 | Japan                                 |                               |          | U.S. Counterpart Previously Submitted              |
|  | EP 1 164 174 A1 | 12/19/2001 | Europe                                |                               |          | In English   |
| OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)                             |                 |            |                                       |                               |          |  |
|  |                 |            |                                       |                               |          |  |
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|-------------------|-----------------|------------|------------------|-------|----------|----------------------------|
|                   | 5,091,009       | 02/25/1992 | Nogami et al.    | 106   | 287.1    |                            |
|                   | 5,218,376       | 06/08/1993 | Asai             | 346   | 1.1      |                            |
|                   | 5,221,497       | 06/22/1993 | Watanabe et al.  | 252   | 313.2    |                            |
|                   | 5,451,251       | 09/19/1995 | Mafune et al.    | 106   | 22 H     |                            |
|                   | 5,466,282       | 11/14/1995 | Eida et al.      | 106   | 22 K     |                            |
|                   | 5,772,742       | 06/30/1998 | Wang             | 106   | 31.27    |                            |
|                   | 5,833,743       | 11/10/1998 | Elwakil          | 106   | 31.27    |                            |
|                   | 6,474,804 B2    | 11/05/2002 | Osumi et al.     | 347   | 100      |                            |
|                   | 6,281,917 B1    | 08/28/2001 | Katsuragi et al. | 347   | 100      |                            |
|                   | 2002/0011178 A1 | 01/31/2002 | Kanke et al.     | 106   | 31.47    |                            |

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|--|-----------------|------------|---------|-------|----------|--|
|  | EP 0 831 135 A1 | 03/25/1998 | Europe  |       |          | In English   |
|  | JP 10-195360 A  | 07/28/1998 | Japan   |       |          | Abstract Previously Submitted                      |
|  | JP 10-329403 A  | 12/15/1998 | Japan   |       |          | Abstract and u.s. Counterpart Previously Submitted |
|  | JP 11-209673 A  | 08/03/1999 | Japan   |       |          | Abstract Previously Submitted                      |
|  | EP 0 962 324 A1 | 12/08/1999 | Europe  |       |          | In English   |

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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